RACHEV, V.V.; KOVBA, L.M.; 1PPOLITOVA, Ye.A.

High-temperature X-ray diffraction study of the aranium-oxygen system in the UO_{2.00} - UO_{2.40} interval. Thur. neorg. khim. 10 no.3:573-575 Mr 165. (MHMA 18:7)

1. Kafedra neorganicheskoy khimii Moskovskogo gosudarstvennogo universiteta, Moskva.

PECHUROVA, N.I.; KOVBA, L.M.; IPPOLITOVA, Yo.A.

Reaction of ammonium hydroxide with uranyl nitrate and sulfate.

Zhur.neorg.khim. 10 no.4:918-922 Ap 165. (MIRA 18:6)

L 8092-66 EWT(m)/EPF(c)/EWP(t)/EWP(b) IJP(c) ES/JD

ACC NR: AP5027211 SOURCE: CODE: UR/0078/65/010/011/2576/2577

AUTHOR: Trunov, V. K.; Rozanova, O. N.; Kovba, L. M.

21/1

ORG: Moscow State University, Department of Inorganic Chemistry (Moskovskiy gosudarstvennyy universitet, Kafedra neorganicheskoy khimii)

TITLE: The double oxide of uranium and molybdenum

SOURCE: Zhurnal neorganicheskiy khimii, v. 10, no. 11, 1965, 2576-2577

TOPIC TAGS: uranium compound, molybdenum compound, single crystal

ABSTRACT: The article is devoted to a study of the system UO₂-UO₃-MoO₃ at 750 C. The samples were prepared by annealing stoichiometric amounts of the starting oxides in evacuated and sealed quartz ampoules at 750 C for periods of 50 and 70 hours. Results of an x-ray analysis of the calcination products are shown in tabular form. Only one new compound, U₂MoO₈, was identified. Single crystals of this compound were obtained by heating a preparation with the composition U₂MoO₈ at 1050 C for 50 hours. U₂MoO₈ crystallizes in a rhombic system Cord 172

L 8092-66

ACC NR: AP5027211

with the parameters a $\approx 6.7A$; b $\approx 22A$; c $\approx 4.1A$. More accurate parameters of the elementary cell were obtained by powder analysis: a = $6.696\pm0.003A$; b= $23.300\pm0.008A$; c = $4.120\pm0.002A$. Results of an x-ray investigation of U_2MoO_8 are shown in a table. The results indicate the existence of a rhombic subcell with a= 6.696A; b= 3.883A; and c = 4.120A; a/b = 1.721. Thus, U_2MoO_8 belongs to the group of double oxides, the structure of which is derived from alpha - UO_3 - U_2O_5 , with pseudo hexagonal lattices of the atoms of the metal. The type of superlattice in the case of U_2MoO_8 is close to that found for U_3O_8 (the parameter a for U_2MoO_8 is two times greater than a for U_3O_8). Orig. art. has: 2 tables

SUB CODE: IC / SUBM DATE: 22Feb65/ ORIG REF: 003/ OTH REF: 000

Card 2/2

RACHEV, V.V.; SMUROVA, V.S.; KOVBA, L.M.; 1FPOLITOVA, Ye.A.

Study of the system uranium - oxygen in the UO_{2,50} - UO_{2,67}

range by the method of high-temperature X-ray phase-shift analysis. Zhur.neorg.khim. 10 no.12:2796-2300 D 165.

(MIRA 19:1)

KUZ'MICHEVA, Ye.U.; ROZANOVA, O.N.; KOVBA, L.M.; IPPOLITOVA, Ye.A.

Study of U₂O₅. Vest. Mosk. un. Ser. 2: Khim. 20 no.2:39-43 Mr-Ap 165. (MIRA 18:7)

1. Kafedra neorganicheskoy khimii Moskovskogo universiteta.

Composition of some binary chides. Vest.Mak.mo.Ber.Makeme. 20 no.3:12-41 My de 165. (Mira 1808)

l. hafodra neorganisheskoy khimil Moskovskogo universitata.

KOVBA, L.M.; TRUNOV, V.K.

Roantgenometric data for \$-Nb205. Vest. Mosk. un. Sor. 2: Khim. 20 no.6:50-52 N-D 165. (MIRA 19:1)

1. Kafedra neorganicheskoy khimii Moskovskogo universiteta. Submitted March 30, 1965.

KOSHCHEYEV, G.G.; KOVBA, L.M.; ZHELANKIN, A.V.

Double oxides of uranium and rare-earth elements. Vest. Mosk. un. Ser. 2: Khim. 20 no.6:53-56 N-D 165. (MIRA 19:1)

1. Kafedra neorganicheskoy khimii Moskovskogo universiteta. Submitted Jan. 11, 1965.

AMOSOV, W.M.; TRUNOV, V.K.; KOVBA, L.M.

X-ray diffraction study of some lanthanide tungstates. Vest. Mosk. un. Ser. 2:Khim. 20 no.4:23-25 Jl-Ag '65.

(MIRA 18:10)

1. Kafedra neorganicheskoy khimii Moskovskogo gosudarstvennogo universiteta i Moskovskiy elektrolampovyy zavod.

FS/JD/WW/JG I 22562-66 EMT(m)/EPF(n)-2/T/EMP(t) IJP(c) SOURCE CODE: UR/0078/65/010/003/0573/0575 ACC NR: AP6012926 AUTHOR: Rachev, V. V.; Kovba, L. M.; Ippolitova, Ye. A. ORG: Faculty of Inorganic Chemistry, Moscow State University (Moskovskiy (3 gosudarstvennyy universitet) TITLE: High temperature x-ray diffraction study of the system uranium-oxygen in the range UO sub 2.00-UO sub 2.40 SOURCE: Zhurnal neorganicheskoy khimii, v. 10, no. 3, 1965, 573-575 TOPIC TAGS: x ray diffraction analysis, uranium, oxygen, specific volume, phase transition ABSTRACT: High-temperature X-ray diffraction was used to study the phase diagram of the uranium-oxygen system in the range U02.00-U02.20 at 850-1150°C. It was established that the homogeneous phase region of U02+x is slowly expanded from U02.19 at 850° to U02.25 at 1150°C. The phase U109+x has a narrow homogeneous region, very little changed temperature. Between 1100 and 1150°C a phase transformation of the order-disorder type occurs which is accompanied by a sharp increase specific volume. The coefficients of linear expansion of the UO2+x and U409+x phases are calculated for 850-1150°C. Orig. art. has: 2 figures and 1 table. [JPRS] SUB CODE: 07, 20 / SUBM DATE: 140ct63 / ORIG REF: 001 / OTH REF: 009 UDC: 546.791:539.26

L 23802-66 EWT(m)/EWP(t) IJP(c) ES/JD/JG ACC NR SOURCE CODE: UR/0363/66/002/002/0319/0320 AP6007255 21 AUTHOR: Rozanova, O.N.; Trunov, V.K.; Kovba, L.M. B ORG: Moscow State University im. M.V. Lomonosov, Department of Chemistry (Moskovskiy gosudarstvennyy universitet, Khimicheskiy fakul'tet) TITLE: New double oxides of uranium and tungsten SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 2, 1966, 319-320 TOPIC TAGS: uranium compound, tungsten compound, thorium compound ABSTRACT: A study was made of the possibility of forming new compounds by the reaction of uranium dioxide with tungsten anhydride and tungsten uranyl. The investigation was made by X-ray methods. Stoichiometric mixtures of the starting substances were calcined in evacuated and sealed quartz ampoules. An X-ray photo of a sample with the empirical formula UO + $2WO_3$, calcined at 1000° C for 40 hours, was identical with that for thorium tungstate. The lattice parameters of $U(WO_4)$, are close to those of $Th(WO_4)_2$. Details of the X-ray investigation of $U(WO_4)_2$ are given in a table. The fact of the isostructure of $Th(WO_4)_2$ and $U(WO_4)_2$ makes it possible to definitely settle the question of the valence state of uranium and tungsten in these compounds. In the reaction of uranium Card 1/2 UDO: 546.791'78'21

lioxide and tungs which is isostruc exides, at a calc formation of the l in the literature	tural with U2N	loo, It m	ist be noted	tnat tnese u i ecompose wit	th the
SUB CODE: 07///SUB	1 DATE: 29Mar6	55/ ORIG RE	P: 003		
		and the first term to the first of the first term of the			

ES/WW/JD/JG IJP(c) EWT(m)/T/EWP(t)/ETI 30230-66 SOURCE CODE: UR/0189/65/000/006/0053/0056 ACC NR: AP6013823 AUTHOR: Koshcheyev, G. G.; Kovba, L. M.; Zhelankin, A. V. ORG: Chair of Inorganic Chemistry, Moscow State University (Kafedra neorganicheskoy khimii, Moskovskiy gosudarstvenpyy universitet) TITLE: Study of binary oxides of uranium and rare earth elements SOURCE: Moscow. Universitet. Vestnik. Seriya II. Khimiya, no. 6, 1965, 53-56 TOPIC TAGS: uranium compound, lanthanum oxide, samarium compound, dysprosium compound, ytterbium compound, x ray analysis, Camera/RKD-57 camera, RKU-86 camera ABSTRACT: The formation of fluorite-type phases was investigated in R203-U308-O2 systems (where R=La, Sm, Dy, Yb) annealed for 66-85 hr at 1200°C, and the solubility limits of the rare earth oxides in uranium octoxide were determined. The U(VI) content and the total uranium content were etermined by coulometric analysis at a controlled potential. X-ray phase analysis was carried out by using the powder method with RKD-57 and RKU-86 Cameras. The degree of oxidation of uranium changes with the ratio R/U and reaches 6 in samples where R/U=2/1. Thus, the presence of a rare earth oxide increases the stability of the hexavalent state of uranium at high temperatures. Contrary to expectations, the solubility of rare earth oxides in U_3O_8 was found to be very low (less than 1.5 mol % of RO1.5). Orig. art. has: 3 tables. OTH REF: 002 ORIG REF: 002/ SUBM DATE: 11Jan65/ SUB CODE: UDC: 546 Card 1/1

L 34391-66 EWT(m)/T/EWP(t)/ETI IJP(c) JD/WW/JG
ACC NR: AP6013741 (/) SOURCE CODE: UR/0192/65/006/006/0919/0921

AUTHOR: Kovba, L. M.; Trunov, V. K.; Grigor yev, A. I.

R

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

TITLE: Investigation of anhydrous salts of uranyl

SOURCE: Zhurnal strukturnoy khimii, v. 6, no. 6, 1965, 919-921

TOPIC TAGS: uranium compound, x ray diffraction analysis, ir spectroscopy,

ALMY DROUS, CRYSTAL LATTICE PARAMETER.

ABSTRACT: Anhydrous salts of uranyl of the composition U02E04 (E = S, Cr, Mr, W) were investigated. Anhydrous uranyl sulfate, containing ~5% of SO4, was obtained during multiple evaporation of uranyl nitrate with concentrated H2SO4 and roasting at 600C. Anhydrous uranyl chromate was produced by roasting U02CCQ4.5.5H2O to constant weight at 520-550C. The anhydrous uranyl molybdate and tungstate were obtained by baking stoichiometric amounts of U2O8, MoO3, and WO3, respectively. The single crystals of these uranyl salts were subjected to I-ray diffraction studies and infrared spectroscopy. Their lattice parameters (monoclinic habit, space group P21/c) were determined as follows:

Card 1/2

UDC: 548.736

cm - region of the ir spectrum. Orig. art. has: 3 tables.

SUB CODE: 07 / SUBM DATE: 06Jan65/OTH REF: 001 / ORIG REF: 003/

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825620018-9"

Card 2/2

JD/JG EWT(m)/EWP(t)/ETI IJP(c) UR/0363/66/002/007/1254/1260 ACC NRI SOURCE CODE: AP6023920 AUTHOR: Koshcheyev, G. G.; Kovba, L. M. ORG: Chemistry Department, Moscow State University im. M. V. Lomonosov (Khimicheskiy fakul'tet, Moskovskiy gosudarstvennyy universitet) TITIE: Study of binary oxides of uranium and rare earth elements in the region rich in rare earth oxides Neorg materialy, v. 2, no. 7, 1966, 1254-1260 SOURCE: AN SSSR. TOPIC TAGS: uranium compound, rare earth compound ABSTRACT: The interaction of rare earth oxides R2O3 (R = Ia, Sm, Dy, Yb) with UO3 and the solubility of the latter in the rare earth oxides were studied by x-ray phase analysis. In R203:U03 systems with R203 > 50 mole \$, the existence of three phases was established: a cubic solid solution with a fluorite structure, and UR6012 and R203-type compounds. In lanthanum and samarium in the range UO3:R2O3 = 1:1.25-1:1.75, another phase was found which like UR6012 has a rhombohedral lattice. The binary oxides UR6012 have the structure of To7012. The indexing of x-ray patterns of the oxides
UR6012 is tabulated. In the La203-U308 system, another rhombohedral phase was observed up to 1100°C; its composition is 2La203·U308 with sublattice parameters (in the hexagonal derivation) a = 10.21+0.01 Å, c = 9.668±0.002 Å. Orig. art. has: 3 tables. SUB CODE: 07/ SUBM DATE: 090ct65/ ORIG REF: 002/ OTH REF: 004 UDC: 546.791-31+546.65-31 BURN DATE! 15Apr657 ORIG REF: 001/ OTH REF: 001

TDC: 546.65'431'21

ACC NR. AP6031591

SOURCE CODE: UR/0189/66/000/003/0089/009

AUTHOR: Trunov, V. K.; Pol'shchikova, Z. Ya.; Kovba, L. M.

ORG: Department of Inorganic Chemistry, Moscow State University (Kafedra neorganicheskoy khimii, Moskovskiy gosudarstvennyy universitet)

TITLE: New double oxides of niobium

SOURCE: Moscow. Universitet. Vestnik. Seriya II. Khimiya, no. 3, 1966, 89-90

TOPIC TAGS: niobium compound, niobium double oxide, aluminum compound, iron compound, indranic oride

ABSTRACT: A study of double oxides which could be formed in the systems: $Al_2O_3-Nb_2O_5$; $Fe_2O_3-Nb_2O_5$ or $Cr_2O_3-Nb_2O_5$ was prompted by previous information on the existence and composition of some double oxides. The above systems were investigated in areas rich in niobium. The following compounds were obtained: $Al_2O_3\cdot 11Nb_2O_5$ and $Fe_2O_3\cdot 11Nb_2O_5$, isostructural to the monoclinic and rhombic modifications of $Ti_2Nb_{10}O_{29}$, and double oxides $Me_2O_3\cdot 49Nb_2O_5$, where Me is either Fe or Cr, and which are isostructural to $ZrO_2\cdot 7Nb_2O_5$. The lattice constants were determined and given in the original in tabulated form. The results indicate that the conclusions obtained by H. J. Goldschmidt on the existence of solid solutions in the systems $Me_2O_3 - Nb_2O_5$ (Me = Al; Fe; or Cr) are incorrect. Orig. art. has: 1 table.

SUB CODE: 07/ SUBM DATE: 090ct65/ ORIG REF: 001/ OTH REF: 004

Card 1/1

UDC: 546

ACC NR: AP7010728

SOURCE CODE: UR/0189/66/000/003/0094/0097

AUTHOR: Koshcheyov, G. G.; Kovba, L. H.

ORG: Department of Inorganic Chemistry, Moscow State University (Kafedra neorganicheskoy khimii Moskovskogo gosudarstvennogo universiteta)

TITLE: Reaction of the solid solutions $U_3O_8-R_2O_3$ (R = La, Sm, Dy, and Yb) with oxygen under pressure

SOURCE: Moscow. Universitot. Vestnik. Seriya II. Khimiya, no. 3, 1966, 94-97

TOPIC TAGS: uranium compound, oxygen compound, gravimetric analysis

SUB CODE: 07

ADSTRACT: The solid solutions U₃08-R₂0₃ (R = La, Sm, Dy, and Yb) containing up to 50 mole 5 of uranium oxides were subjected to the action of oxygen in an autoclav at a pressure of 230 atmospheres and a temperature of 650° for 100 hours. The extent of oxidation of uranium was determined gravimetrically by change in weight, and coulometrically with a controlled cathode potential. The systematic difference in analyses between gravimetric and coulometric methods is apparently due to the partial adsorption of oxygen and water vapor. A comparison of the data of the coulometric analysis prior to oxidation with oxygen and after, shows that single-

Card 1/2

UDC: 546

ACC NR: AP7010728

phase preparations of some solid solutions were completely unoxidized. The parameters of solid solutions of oxides of uranium with oxides of rare-earth elements remained unchanged, but the limits within which the monophase solid solution could be maintained were expanded. Orig. art. has: 3 tables. JPRS: 40,361

Card 2/2

SOSOV, R.F., prof.; KOVBA, P.Ya., assistent; SHUPLIKO, N., mladshiy nauchnyy sotrudnik

Etiologic and epizootiological importance of Leptospira from the L. hebdomadis serogroup. Veterinariia 42 no.9:28-30 S 165. (MIRA 18:11)

1. Moskovskaya veterinarnaya akademiya (for Sosov, Kovba).
2. Gosudarstvennyy nauchno-kontrol'nyy institut veterinarnykh preparatov (for Shupliko).

KOVBAN, V.; KOLOSOV, N., REPETIY, F.

Work practice of State Bank branches in fulfilling payment and receiving plans. Den. 1 kred. 19 no. 1:48-52 Ja :61.

(MIRA 14:2)

1. Kreditnyy inspektor Gorodokskogo otdeleniya Gosbanka (for Kovban). 2. Upravlyayushchiy Zagorskim otdeleniyem Gosbanka (for Kolosov). 3. Upravlyayushchiy Berdichevskim otdleniyem Gosbanka (for Repetiy).

(Banks and banking)

KOVBAN, V., ekonomist

Our indices on carrying out the receiving and disbursement plan. Den.i kred. 21 no.4:38-40 Ap *63. (MIRA 16:4)

1. Gorodokskoye otdeleniye Gosbanka Khmel*nitskoy oblasti. (Gorodok-Banks and banking)

IVANOV, V.A.; ALPATOV, Ye.M.; KOYBAS, M.I.; BOCHAROV, B.M.; KISHIK, A.I.

Efficient conveyor-tree lacquoring machine. Prom. energ. 18 no.7:
9 Jl 63.

(Electric machinery) (Protective coatings)

KOVBAS, Yuliya Ivanovna; GLAZUHOVA, V.V., red.; BALASHOV, V.I., tekhn.red.

[Heasuring instruments in commercial enterorises and control of their use] Izmeritel'nye pribory v torgovykh predpriiatiiakh their use] Izmeritel'nye pribory v torgovykh predpriiatiiakh i kontrol' za ikh ispol'zovaniem. Moskva, Gos.izd-vo torg.lit-ry, (MIRA 11:1)

1956. 44 p. (Scales (Weighing instruments))

S/133/60/000/011/013/023 A054/A029

AUTHORS:

Borovkov, A.N., Tsereteli, P.A., Svetlitskiy, Ye.A.,

Ubiriya, A.Ye., Kovbasa, I.I.

TITLE:

The Use of Non-Detachable Mandrels for the Secondary Piercing

of Tube Billets

PERIODICAL:

Stal', 1960, No.11, pp. 1,022-1,023

TEXT: The application of a non-detachable mandrel in the first piercing mill viz., in the hoo 3M3(ZMZ) type unit since 1959 has made it possible to automate the piercing process in the first mill, to prolong the useful life of the mandrel and to simplify the servicing of the machine. As the detachable mandrel of the second piercing mill was maintained, this part of the operation could not be automated, however. In order to eliminate this drawback of the process, several suggestions have been made to reconstruct the mandrel of the second piercing mill, first by the UkrNITI, later on by a team of the ZMZ (including the author of the article). The essential feature of the latter design was a thick-walled, non-detachable mandrel with thread for attaching it to the end piece of the roller and with openings in its surface for the outflowing cooling water. However, on account of the rigid attachment of the

Card 1/2

S/133/60/000/011/013/023 A054/A029

The Use of Non-Detachable Mandrels for the Secondary Piercing of Tube Billets

mandrel, the frictional forces in the first moment of the bite were not sufficient to make the mandrel revolve with the roller. In order to eliminate this drawback, the team of the ZMA replaced this mandrel by a revolving type which consisted of a thick-walled mandrel fixed on a special end piece and a thick walled sleeve, continuously cooled from the inside with water under high pressure. During standstills when the mandrel is in its extreme rear position, it is cooled by a special spray. This non-fixed attachment of the mandrel, made possible by a specially shaped end piece, allows the mandrel to revolve freely as necessary in the first moment of the grip and insures uninterrupted internal cooling of the mandrel. During standstills when the mandrel is in its extreme-rear position, it is in this arrangement also cooled by a spray with water under high pressure. In an improved model of this construction (Author's Certificate No. 130473) the mandrel is fixed on an unsplit end piece and there are openings for the outflowing water on the working surface of the mandrel. The useful life of the new type non-detachable mandrels is 4-5 times longer than that of the conventional types, the machine is easier to service, its output is higher and the operation of the second piercing will could be automated.

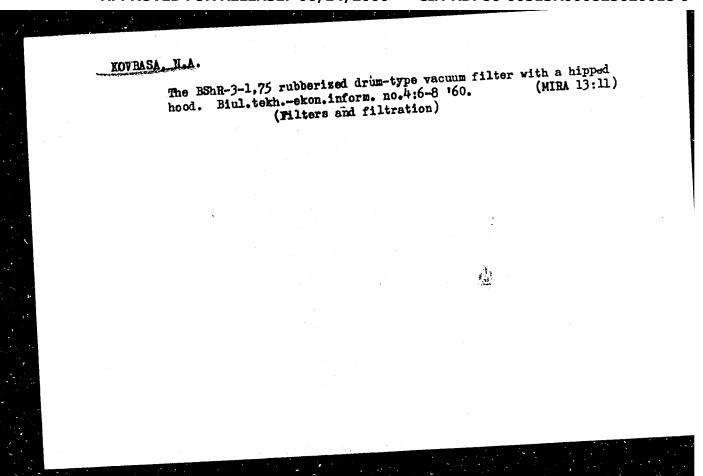
Card 2/2

ASSN: Transcaucasus Metallurgical Plant.

KOVBASA, N.A., inzh. BShR-3-1.75 a rubberized drum-type vacuum filter with a hipped roof.

Khim. mash. no.6:12-13 N-D '59. (MIRA 13:3)

(Filters and filtration)



KOVBASA, N.A.

The Plo-3,6/0,4 filtering unit for dehydration of coarse grained pulps. Biul.tekh.-ekon.inform. no.8:5-6 160. (MIRA 13:9) (Ore dressing)

KOVBASA, N.A., inzh.

Vacuum plate filter with a filtering surface of 10 m². Khim. mash. no. 1:8-9 Ja-F '61. (MIRA 14:1) (Filters and filtration)

KOVBASA, Ye.M., assistent. (Khar'kov); SINEL'NIKOV, Ya.R., assistent (Khar'kov)

Nerve cells lying within the maxillary and mandibular nerves.

Probl. stom. 3:261-266 '56
(JAWS--INNERVATION)

DWT(d)/T/RWP(1) UR/0021/65/000/008/0990/0993 ACC NRIAP5021958 AUTHOR: Zhaldak, M. I.; Kovbasenko, TITLE: A problem of quadratic programming BCURCE: AM UkrRSR. Dopovidi, no. 8, 1965, 990-993 TOPIC TAGS: functional equation, linear programming, minimization, set theory ABSTRACT: The problem of minimizing a quadratic function D = 127,+ 2 0,71+0 is considered with a positive definite quadratic form on a convex set determined by continuously specified linear constraints $\eta(q) = \sum \psi_{k}(q) z_{k} + M(q) > 0.$ (9 & Q). It is shown that the problem can be reduced to a linear programming problem with continuously specified constraints, to which an algorithm based on a simplex-method scheme can be applied. The method can be used for solving the more general problem of finding the shortest distance between two convex sets in n-dimensional space. This report was presented by Yu. A. Mitropol'skiy (Yu. O. Mytropol's'kyy). Orig. art. has: 6 formulas and 1 figure.

Cord 1/2

1001-1047

Card2/2

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825620018-9"

SHKREBEL', M.Ya.. Prinimali uchastiye: BLAGOVESHCHENSKAYA, K.A.;

DZYUBENKO, G.F.; FRAGAYLOVA, V.I.; ZALESSKAYA, L.O.; KOTSERUBA,

L.P.; KOVBASENKO, L.A.; LYAUDANSKAYA, B.Ye.; MILOVZOROV, P.Z.

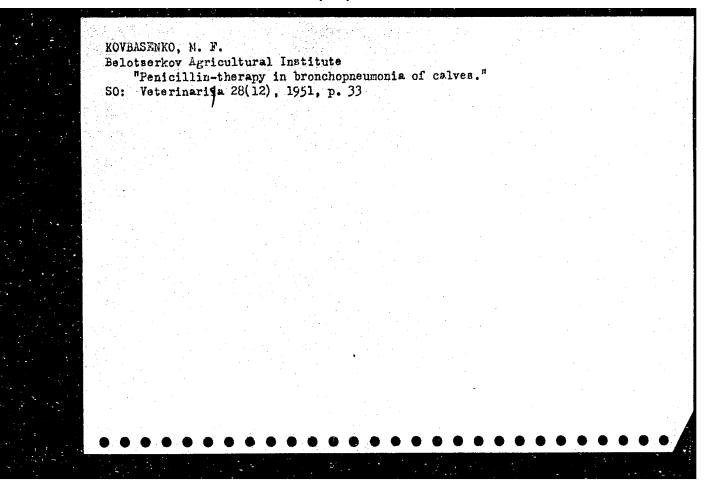
[deceased]; NEZHURBEDA, M.P.; SNITKO, K.I.; YANTSOVA, A.V..

KRESHCHENSKIY, Ye.S., tekhn.red.

[Economy of Kiev Province; a statistical manual] Narodnoe khoziaistvo Kievskoi oblasti; statisticheskii sbornik. Kiev, Gos. stat.izd-vo, 1959. 255 p. (MIRA 13:3)

1. Kiev (Province) Statisticheskoye upravleniye. 2. Nachal'nik statisticheskogo upravleniya Kiyevakoy oblasti (for Shkrebel').

(Kiev Province--Statistics)



KOVBASENKO, Fomich

KOVBASENKO, M. F.: "The pathogenesis, therapy, and prophylaxis of bronchopneumonia of calves and young pigs." Him Higher Education USSF. Moscow Veterinary Academy. Chair of the Pathology and Therapy of Internal Noninfectious Diseases of Agricultural Animals. Moscow, 1955.

(Dissertation for the Pegree of Doctor in Veterinary Sciences).

SO: Knizhnaya letopis', No 23, 1956

KOVBASENKO, V.M.

Improving the sanitary quality of sausage products. Kharch.prem. ne.4: 83-87 O-D 163. (MIRA 17:1)

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825620018-9

ROVBASENKO, V.M.

Development of the resistance to ultraviolet irradiation in tactoria of the Galmonella group. Mikrobiol. phur. 26 no.3145-46 164.

(MIRA 18:5)

1. Belotserkovskiy sallekokhozyaystvennyy institet.

KOVBASENKO, V.S.

Route-supervisory equipment on big stations. Avtom., telem. i sviaz: 2 no.7138-41 J1 58. (MIRA 11:6)

1. Bukovoditel' brigady signalizatsii, tsentralizatsii, blokirovki i svyasi Proyektnoy kontory Stalinskoy dorogi.

(Railroads—Stations—Equipment and supplies)

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825620018-9

K	12(3); 28(1) RUAG : N/C EMPLOYATION SOW/2776 C. Brops v chalasmoderodnery sytomatile, z-immediantile 1 svyaff; abortly statey (Bur Development at Ballycel Antendary, Nameric Control, and Communications) Obligation of Articles) Recover, immediate that, 1999, 198 p. 5,000 coptes	FUNDOM: This collection of articles is incoming for engineers and technicians openialising is redirect ententia and represent and communications.	estion of estimate seated is the Acarifor power supply of estimated block- estimating systems; the construction of describing interesting blocking systems in estimating years of estimate status; softward satisfact interlocking systems in estimating years of estimate status; softward sixtem of estimated systems; estimates and the status of these stranges of code status in block - standing seates and talantee special of coverbed communication likes in	appliest fraution services in the distributed motition of religious. I relate the too the service that a service the service the speed of values on a longer and a signaling applies for schooling the speed of values of services. From the signal on services were considered to the factor of the values of services and committeeting and on religious to the indicate that the factor, there are not references.	Equality and the state of the s	Eximation, Vol., Enclassor. North lower System in North Control Systems 75 The methor is of the opinion that its replacementaril system of Engineers Minkley, and Originary, viding used in the North, systems only to small reliable and For large reliable destinate and enfinish a system larth system was developed Minks one headle both tenents and enfinish a system larth system was developed Minks one headle both tenents and engelog visits from all routes and in all Minks one systemation of this proves for some five years gave seministaring results. A description of the proves is given.	Traithdeary, V.L., and Jo.E. Missir, Successiv. Number Control Systems of the Findshings of the Findshing Systems of the Systems of Syst	Instigrat subseque. Description of the control of the control of the boston and the control of	Well-dama, A.M., Engineer, New Saich on the Kriwet of the Contest virw Servers Lange of the Libertic Reliations to Existing Contest of Preventeed Communication Lange of the Contest of th	Provide All Relations Commercialism on incircula in the USA 173 system on relivous in the USA system on relivous in the TEA.	

VERBITSKAYA, N.G.: IL'YUKHINA, N.P.; KOVBASINA, V.M.

Stratigraphy and lithology of upper Paleozoic coal-bearing sedi-

ments in the southwestern margin of the Tunguska Basin. Mat.-VSEGEI Ob.ser. no.23:112-137 '59. (MIRA 14:11)

(Tunguska Basin--Coal geology)

TOVELSTO, M.A.

Use of minscorbin in infectious departure. Fract. date so. 51
92-93 Ny 161. (NIEL 11:9)

l. Kafedra infektsionnykh bolezney (zav. - prof. B.Ya.Peialke) i kafedra biokhimii (zav. - prof. Ye.F.Shamray) Kiyevskogo meditsinskogo instituta.

(ASCORBIC ACID) (HEPATITIS, DEFECTIONS)

- LAPINA, G.G. (Kiyev); GORODETSKIY, M.M. (Kiyev); LAZARETNIK, A.Sh. (Kiyev); KOVBASKO, M.A. (Kiyev)

Diagnostic significance of the determination of C-reactive protein in some diseases of the liver. Vrach. delo no.6:26-28 Je '61.
(MIRA 15:1)

(BLOOD PROTEINS) (LIVER_DISEASES)

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825620018-9

KOVBASS, P.

"De l'equilibre adico-basique dans la pneumonie lobaire chez les malades traites a la sulfidine." Vladimirov, V_{\bullet} , et Kovbass, P_{\bullet}

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1940, Volume 18, no. 5.

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825620018-9

KOVBASS, P.

"Traitement de la pneumonie lobaire par la sulfidine et MB 693." Khodjamirov, S., et Kovbass, P. (p. 428)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1940, Volume 18, no. 5.

4

KOVBASYUK, A. S.

KOVBASYUK, A. S.: "Investigation of the cyclic-recording chamber as adapted to ship steam boilers". Odessa, 1955. Min Maritime Fleet USSR. Odessa Inst of Engineers of the Maritime Fleet, Chair of Ship Steam Engines. (Dissertations for the degree of Candidate of Technical Science)

SO: Knizhneva Letopis! No. 50 10 December 1955. Moscow.

AUTHOR:

Kovbasyuk, A.S. Cand. Tech. Sci.

SOV/96-58-6-5/24

TITLE:

The aerodynamics of flow in a conical cyclone chamber. (Aerodinamika

potoka v tsiklonnoy konicheskoy kamere)

PERIODICAL:

Teploenergetika, 1958, ... No.6. pp. 30 - 35 (USSR)

ABSTRACT:

The aerodynamics of flow in conical chambers has not been studied so thoroughly as that in cylindrical ones. Tests were made with cold air on two conical chambers with tapers of 0.15 and 0.3. The air was delivered tangentially through three rectangular nozzles 150 mm long. The diameter of the outlet nozzle ranged from 100 to 410 mm; the ratio of this diameter to that of the large end of the cone in which it was located ranged from 0.13 to 0.55. The length of the outlet nozzle was varied, employing an inlet air velocity of up to 60 m/sec and a rate of flow of up to 2300 m³/hr (at NTF). The general arrangement is illustrated in fig.1. Typical plots of radial and rotational velocities are given in fig. 2. and it is shown that two eddies circulate in the longitudinal section of the chamber. In any cross-section of the conical cyclone, there are two maxima of positive axial velocity component and two positions of reverse flow, as shown in the velocity plots of fig.3. A further general discussion of the nature of air flow in a cyclone of this kind is

Card 1/4

The aerodynamics of flow in a conical cyclone chamber. SOV/96-58-6-5/24

given. Three characteristic regions of air flow are distinguished in the longitudinal section of the chamber (see fig.4.) and comprise two zones of circulation and one of discharge. The amount of air circulating in the vortices is two or three times greater than that passing through the cyclone. The effect on the flow of varying the taper of the chamber was studied. Alteration of the taper particularly affects the magnitude and direction of the radial velocities. Increased taper enlarges the area occupied by the peripheral circulation vortex (see fig.5.), and mixing becomes more intensive, particularly at the periphery of the narrow part of the chamber. The influence of inlet and outlet conditions was also studied. Because the amount of air circulating in a conical chamber is much greater than the amount passing through, change of inlet and outlet conditions has much more effect than in cylindrical chambers. Quite a small change in the relative radius of inlet, which scarcely alters the rotational velocity, considerably alters the nature of flow on the longitudinal section; radial velocity is specially affected. As the relative inlet radius is increased, the flow of air through the peripheral vortex rises; in the upper part of the chamber, radial velocities towards the centre increase; and in the lower part they diminish and the intensity of the vortices fal falls off. Reduction of relative inlet radius improves mixing in

Card 2/4

The aerodynamics of flow in a conical cyclone chamber. SOV/96-58-6-5/24

the narrow part of the cone. The vortices are also affected by the longitudinal position of the inlet nozzle. If the air inlet, instead of being distributed, is concentrated at the narrow end of the cone, the effect is much the same as reducing the relative inlet radius. The outlet conditions also affect the aerodynamic flow structure. Lengthening the outlet tube has little effect on rotational velocity but a good deal on longitudinal, because the discharge zone is shortened and is displaced into the upper vortex. The effects of extending the discharge tube into the chamber are described in detail. Alteration of the outlet diameter is also considered. It affects the longitudinal flow, and a larger diameter displaces all the characteristic surfaces towards the periphery. When the outlet diameter is half the major chamber diameter, a large mass of air enters the peripheral vortex, but within the chamber a smaller quantity of air moves in the reverse annular vortex; this effect is shown in fig.6. It is concluded that in conical chambers the peripheral circulation vortex is most developed when the relative diameter of the outlet is 0.45. There is a note on the design of cyclone chambers, with particular reference to calculation of the

Card 3/4

The aerodynamics of flow in a conical cyclone chamber. SOV/96-58-6-5/24

flow resistance and the output; appropriate formulae are given. In a conical chamber with a taper of 0.3, the special features of aerodynamic flow structure are most developed when air is delivered to the narrow part of the cone; when the diameter of the outlet nozzle is 0.4 to 0.5 of the large diameter of the cone; and the length of the outlet tube within the chamber is 0.76 - 0.8 of the length of the chamber. There is 1 table, 7 figures and 9 literature references (7 Soviet and 2 German)

ASSOCIATION: Odessa Institute of Marine Engineers (Odesskiy Institut Inzhenerov Morskogo Flota)

- 1. Supersonic flow--Aerodynamics 2. Supersonic flow--Test methods
- 3. Supersonic flow--Characteristics 4. Conical bodies--Applications

Card 4/4

KOVBASYUK, A.S., kand.tekhn.nauk, doteent

Calculation of the resistance of cyclones. Izv. vys. ucheb. zav.; energ. 5 no.1:85-92 Ja '62. (MIRA 15:2)

1. Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy promyshlennosti. Predstavlena kafedroy teplotekhniki. (Furnaces)



"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825620018-9

CARBER, M.I.; ECUMARYER, E.F.

Improving the bitminume insulation of underground purelines by adding atoutin polypropylane. Transp. i Euron. mafit i neftsprod. (ULA 17:12)

1. Akademiya kommunalinego khozyayetva im. E.D. Familiova.

KULAGIN, S.G.; KOVRASYUK, L.D.

Observations of bright senith stars at the Gor'kiy Latitude Station. Astron.tsir. no.149:10-11 My '54. (MLRA 7:7) (Gor'kiy-Latitude variation) (Latitude variation-Gor'kiy)

KONBASYUK, L.D.

Results of observations of two bright zenith stars in Gorkiy from 1954.7 to 1956.7. Astron. tsir. no.182:7 Je '57. (MIRA 11:3)

1. Gor'kovskaya shirotnaya stantsiya im. prof. K.K. Dubrovskogo. (Stars--Coservations)

KULAGIN, S.G.; KOVBASYUK, L.D.; DAGAYEV, M.M.; ROZENBLYUM, N.D.; YEGORCHENKO, I.F.(Irkutak); KAVERIN, A.A. (Irkutak); KONSTANTINOVA, T.G. (Irkutak); EUKLIWA, V.A. (Irkutak); KUKLIN, G.V. (Irkutak); SAZONOVA, Z.G., (Irkutak); CHERNYKH, L.I. (Irkutak); CHERNYKH, N.S. (Irkutak); DEMIDOBICH, Ye.G.; BRONSHTEN, V.A.; YAKHONTOVA, N.S. (Leningrad); PEROVA, N.B.; DOKUCHAYEVA, O.D.; KATASEV, L.A.; KLYAKOTKO, N.A.; PARENAGO, P.P.; SHCHEBINA-SAMOYLOVA, I.S.; MASEVICH, A.G.; RYABOV, Yu.A.; SHCHEGLOV, V.P.; PEREL!, Yu.G.; MARTYNOV, D.Ya.; FEDYNSKIY, V.V.; VOROHTSOV-VEL'YAMINOV, B.A.; ZIGEL!, F.Yu.; BAKULIN, P.I., otv.red.; RAKHLIN, I.Ye., red.; AKHLAMOV, S.N., tekhn.red.

[Astronomical calendar] Astronomicheskii kalendar'. [A yearbook; variable section for 1959] Eshagodnik. Peremennaia chaut'. 1959. Red.kellegiia P.I. Bakulin i dr. Maskva, Gos.izd-ve fiziko-matem.lit-ry. 1958. 370 p. (Vaesoluznoe astronome-geodezicheskoe obshchestvo, no.62) (MIRA 12:2)

1. Gosudarstvenneye astronome-geodezichaskoye obshchestve (for Kulagin, Kovbasyuk, Demidevich). 2. Moskovskoye otdeleniye Vsesoyuznogo astronome-geodezicheskogo obshchestva (for Dagayev, Rozenblyum, Bronshten, Perova).

(Astronomy--Yearbooks)

KULAGIN, S.G.; KOVBASYUK, L.D.; DAGAYEV, M.M.; LAZAREVSKIY, V.S.; KAVERIN,
A.A.; KUKLIN, G.V.; CHERNYKH, N.S.; DEMIDOVICH, Ye.G.; BRONSHTEU,
V.A.; YAKHONTOVA, N.S. (Leningrad); PEROVA, N.B.; DOKUCHAYEVA,
O.D.; KATASEV, L.A.; MASEVICH, A.G.; SHCHERBINA-SAMOYLOVA, I.S.;
ARSENT'YEV, V.V.; FRANK-KAMENETSKIY, D.A.; LEYKIN, G.A.; SHCHEGLOV,
P.V.; PEREL', Yu.G.; BAKULIN, P.I., otv.red.; MASEVICH, A.G., red.;
PARENAGO,P.P., red.; RAKHLIN, I.Ye., red.; AKHLAMOV, S.N., tekhn.red.

[Astronomical calendar. A yearbook; variable section for 1959]
Astronomicheskii kalendar. Ezhegodnik. Peremennaia chast.
1960. Red.kollegiia P.I.Bakulin i dr. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1959. 351 p. (Vsesoiuznoe astronomo-geodezicheskoe obshchestvo, no.63)

(MIRA 13:1)

1. Gosudarstvennoye astronomo-geodezicheskoye obshchestvo (GAGO) (for Kulagin, Kovbasyuk, Lazarevskiy, Demidovich). 2. Moskovskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo obshchestva (MOVAGO) (for Dagayev, Bronshten, Perova).

(Astronomy--Yearbooks)

KOVBASYUK, L.D.

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Vsesoyuznaya astronetricheshaya konferentsiya.

Trudy 14-y Astrometricheskoy konferentsii SSSR, Riyev, 27-30 maya 1958 5.

(Transactions of the 14th Astrometrical Comference of the USSR, Held in Riyev 27-30 May 1958) Moscow, Ind-vo AR ESSR, 1960. 440 p. Errata slip inserted. 1000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Glavnoya astronomicheshaya observatoriya (Pulkovo).

Resp. Ed.: M. S. Zverev, Corresponding Number, Academy of Sciences USSR; Ed. of Publishing House: N. K. Zeychik; Tech. Ed.: R. A. Zemarayeva.

MERCOSE: The book is intended for estronemers and astrophysicists, particularly those interested in astrometrical research.

COVERAGE: This publication presents the Transactions of the 14th Astronetrical Conference of the USSR, held in Kiyev 27-30 May 1958. It includes 27 reports and 55 scientific papers presented at the plenary meeting of the Conference

Card = 1/25

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Transactions of the lith Astronetrical (Cont.)

and at the special sectional meetings. An appendix contains the resolutions adopted by the Conference, the composition of the comittees, the agrendance and adopted by the Conference, the composition of the formattees, the appendix of the litt of participants at the Conference. A brief summary in English is the litt of participants at the Conference follow individual articles, given at the end of each article. References follow individual articles, the presentation of this publication, expresses thanks to the supervised the preparation of this publication, expresses thanks to the members of the secretariat: V. M. Vasil'yev, I. G. Kol'chinskly, A. B. Onemeters of the secretariat: V. M. Vasil'yev, I. G. Kol'chinskly, A. B. Onemeters of the secretariat: V. M. Vasil'yev, I. G. Kol'chinskly, A. B. Onemeters of the secretariat: V. M. Vasil'yev, I. G. Kol'chinskly, A. B. Onemeters of the secretariat: V. M. Vasil'yev, I. G. Kol'chinskly, A. B. Onemeters of the secretariat: V. M. Vasil'yev, I. G. Kol'chinskly, A. B. Onemeters of the secretariat: V. M. Vasil'yev, I. G. Kol'chinskly, A. B. Onemeters of the secretariat: V. M. Vasil'yev, I. G. Kol'chinskly, A. B. Onemeters of the secretariat: V. M. Vasil'yev, I. G. Kol'chinskly, A. B. Onemeters of the secretariat: V. M. Vasil'yev, I. G. Kol'chinskly, A. B. Onemeters of the secretariat: V. M. Vasil'yev, I. G. Kol'chinskly, A. B. Onemeters of the secretariat: V. M. Vasil'yev, I. G. Kol'chinskly, A. B. Onemeters of the secretariation of the secretariation

Table and the Ta	
Sakharov, V. I., and I. F. Korbut. A New Zenith-Telescope of the Soviet Latitude Service and Its Test at Pulkovo	246
Andreyenko, N. R. The Investigation of Talcott Levels of the Zenith-Telescope ZTI-180 at Pulkovo	268
Andreyenko, N. R. The Investigation of the Periodic and Progressive Errors of the Micrometer of Zenith-Telescope ZFL-180 at Pulkovo	270
rodan, Yu. T., T. I. Golikova, and V. V. Nesterov. Results of the Preliminary Investigations of the Zenith-Telescope of the Moscow Observatory of the State Astronomical Institute imeni P. K. Shternberg	276
Chudovicheva, N. A. Zenith-Telescope ZTI-180 of the Astronomical Observatory imeni Engel®gardt and the First Series of Observations	284
Gulagin, S. G., Ye. G. Demidovich, and L. D. Kovbasyuk. Observations of Bright Zenith Stars According to the Four-Group [Poltava-Type]	
ard 11/16	

KULAGIN, S.G.; KOVBASYUK, L.D.; DAGAYEV, M.M.; LAZAREVSKIY, V.S.;

DEMIDOVICH, Ye.G.; BRONSHTEN, V.A.; YAKHONTOVA, N.S.(Leningrad);

KUROCHKIN, N.Ye.; DOKUCHAYEVA, O.D.; SHCHERBINA-SAMOYLOVA, I.S.;

MASEVICH, A.G.; LIPSKIY, Yu.N.; MARTYNOV, D.Ya.; ARSENT'YEV, V.V.;

MOROZ, V.I.; MASEVICH, A.G.; PEREL', Yu.G.; BAKULIN, P.I., otv.

red.; KULIKOV, G.S., red.; AKHLAMOV, S.N., tekhn. red.

[Astronomical calendar; yearbook.Variable part, 1962] Astronomicheskii kalendar'; ezhegodnik. Peremennaia chast', 1962. Red. kollegiia: P.I.Bakulin i dr. Moskva, Gos.izd-vo fiziko-matem. lit-ry, 1961. 259 p. (Vsesoiuznoe astronomo-geodezicheskoe obshchestvo, no.65) (MIRA 14:12)

l. Gosudarstvennoye astronomo-geodezicheskoye obshchestvo (for Kalugin, Kovbasyuk, Lazarevskiy, Demidovich). 2. Moskovskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo obshchestva (for Dagayev, Bronshten, Kurochkin).

(Astronomy—Yearbooks)

KULAGIN, S.G.; KOVBASYUK, L.D.

Diurnal free nutation from the observations in Gorkiy.
Astron. zhur. 41 no.42758-759 J1-Ag *64 (MIRA 17:8)

l. Shirotnaya stantsiya R_n diofizicheskogo instituta Gor'kovskogo gosudarstvennogo universiteta.

KOVBASYUK, L.M.

Preparation of crowns from quick-hardening plastic materials by the one-stage method using standard teeth made of AKR-7 plastic material. Vrach. delo no.9:119-121 S '60. (MIRA 13:9)

1. Kafedra ortopedicheskoy stomatologii (zav. - prof. A.I. Betel'man) stomatologicheskogo fakul'teta Kiyevskogo meditsinskogo instituta. (DENTAL PROSTHESIS)

KOTLYAR, A.A. (Kiyev); KOVBASYUK, L.M. (Kiyev)

Use of quick-setting plastics for preparing pivot teeth. Probl. stom. 6:256-258 '62. (MIRA 16:3) (DENTAL PROSTHESIS) (PLASTICS IN MEDICINE)

KOVBASYUK M.

GOLOVISOV, A.; KOVBASYUK, M.

Training specialists. Den.i kred. 14 no.10:43-47 0 '56.(MLRA 9:11)

(Finance-Study and teaching)

Strengthen control over acceptance refusals. Den.i kred. 17 no.4:68-71 Ap 159. (MIRA 12:8)

YEGOROV, S.; MORSIN, V.; KOVBASYUK, M.

For an efficient utilization of working capital. Den. i kred.
19 no.12:23-46 D '61. (MIRA 14:12)

KOVBASYUK, M.

Issuing credit and payments for the state delivery operations of food industry enterprises. Den. 1 kred. 20 no.7:30-35 Jl 162. (MIRA 15:7)

(Odessa Province--Produce trade) (Odessa Province--Agricultural credit)

KOVBASYUK, M.

Ways to further improve the issuing of credit to food industry enterprises. Den. i kred. 20 no.11:24-27 N '62.

(MIRA 16:1)

(Odessa Province—Food industry—Finance)

reviewalk, R.F., Cond Led Soi - (dim) "Ivelection of certain afflated with immedicated indices in young children the distribution of certain december."

Chemic, 1959. 16 pp (Geomet State Led Inst in 1.1. Pirotov),

per copies (NI, 29-59, 131)

-73-

ANINA-RADCHENKO, N.D., prof.; LEONIDOVA, K.O., kand.med.nauk; KOVBASYUK, R.F., kand.med.nauk; BALABAN, I.Ya., dotsent; BERNATSKAYA, B.P.

Specific antigens and antibodies in the blood ar rum of patients with cancer of the lungs. Vrach. delo no.3:53-38 Mr '64.

(MIRA 17:4)

1. Odesskiy nauchno-issledovatel'skiy institut epidemiologii i
mikrobiologii imeni I.I.Mechnikova i Odesskiy oblastnoy onkologicheskiy dispanser.

LEBEDEV, S.I., prof., doktor biolog.nauk, otv.red.; KOVBASYUK, S.M., dotsent, kand.istor.nauk; red.; PAZYUK, L.I., dotsent, kand.geologo-mineral. nauk, red.; KIRILLOV, Ye.A., prof., doktor fiziko-matemat.nauk, zasluzhennyy deyatel nauki USSR, red.; TSESEVICH, V.P., prof., doktor fiziko-matemat.nauk, red.; LEONOV, I.G., dotsent, kand.istor. nauk, red.; VOROB'YEV, A.I., prof., doktor biolog.nauk, red.; GAVRILOV, N.I., prof., doktor fiziko-matemat.nauk, red.; MOROZOV, A.A., prof., doktor khim.nauk, red.; DANILENKO, K.Ye., dotsent, kand.filolog.nauk, red.; MIGAL', K.G., dotsent, kand.istor.nauk, red.; SMIRNOV, A.M., dotsent, kand.geograf.nauk, red.; BABICH, N.M., tekhn.red.

[Scientific yearbook for 1956] Nauchnyi ezhegodnik 1956 g. Odessa, 1957. 388 p. (MIRA 12:4)

1. Odessa. Universitet. 2. Deystvitel'nyy chlen Ukrainskoy Akodemii sel'skokhoz.nauk, zaveduyushchiy kafedroy fiziologii rasteniy Odesskogo gosudarstvennogo universiteta im. I.I.Mechnikova (for Lebedev). 3. Zaveduyushchiy kafedroy istorii Ukrainskoy SSR Odesskogo gosudarstvennogo universiteta im. I.I.Mechnikova (for Kovbasyuk). 4. Zaveduyushchiy (Continued on next card)

SHKOP, Ya., inzh.; KOVBASYUK, V., inzh.; SEYMOVICH, R., inzh.

New box loader. Avt.transp. 40 no.11:14-15 N '62.

(MIRA 15:12)

(Loading and unloading—Equipment and supplies)

SHEYNDLIN, A. Ye. (Moskva); GUBAREV, A. V. (Moskva); KOVBASYUK, V. I. (Moskva); PROKUDIN, V. A. (Moskva)

Problem concerning the optimisation of the operation of magneto-hydrodynamic generators. Izv. AN SSSR. Otd. tekh. nauk. Energ. 1 avtom. no.6:34-38 N.D 162. (MIRA 16:1)

(Magnetohydrodynamics)

AUTHOR: Ivanov, P.P.; Kovbasyuk, V.I.; Stepanov, S.A.

ORG: High Temperature Research Institute (Nauchno-issledovatel'skiy institut vysokikh temperatur)

TITLE: Special characteristics of the operation of a magnetohydrodynamic generator at high Hall numbers

SOURCE: Teplofizika vysokikh temperatur, v.3, no.6, 1965, 845-850

TOPIC TAGS: magnetohydrodynamics, plasma generator, Hall effect, magnetic field, electron mobility

ABSTRACT: At a relatively low degree of ionization, characteristic of a plasma from conductive magnetohydrodynamic generators, the generalized form of Ohms Law can be written as: //55/44

$$J = \frac{\sigma_0}{(1+2\beta_i\beta_e)^2 + \beta_e^2} \left\{ (1+2\beta_i\beta_e)E' - \frac{E' \times B}{B} \beta_e \right\}, \qquad (1.1)$$

$$(\beta_i = \omega_i \tau_i = \mu_i B, \ \beta_e = \omega_e \tau_e = \mu_e B),$$

where μ_1 and μ_0 are the mobilities of the ions and the electrons in the Cord 1/2 UDC: 621.313.12:538.4

L 11904-66

ACC NR. AP6001907

plasma; and, E' is the effective electrical field. It results from theoretical considerations presented in the article that in small fields (Te less than 30000K) the conductivity attains a maximum at a relative concentration of the added substance equal to approximately 10-4. In a region of complete ionization of the added substance, there is observed a rapid increase in the electron temperature, an increase which is sometimes of a discontinuous nature. It was found that at a gas temperature of 1000-2000°K and electron temperatures from 2000 to 5000°K, the critical amount of the added substance is approximately 1% by volume. At amounts greater than the critical, instability is observed. It is concluded that the most favorable conditions for increasing the conductivity of the plasma are low pressures, high temperature, and low values of the electrical efficiency. Orig. art. has: 24 formulas and 7 figures.

SUB CODE: 20/ SUEM DATE: 07Apr65/ ORIG REF: 002/ OTH REF: 003

L-10017-63 EFF(n)-2/EFR/ENG(k)/EDS/T-2/ES(v)/ES(w)-2--AEDC/AFFTC/AFNL/ASD/ ESD-3/SSD--Po-4/Pe-4/Pe-4/Pe-4/Pab-4/P1-4--LIP(C)/AT/NV

8/0179/63/000/003/0003/0008 ACCESSION NR: AP3003450

AUTHOR: Gubarev, A. V. (Moscow); Kovbasyuk, V. I. (Moscow); Medin, S. A. O (Moscow); Sheydlin, A. Ye. (Moscow); Shumyatskiy, B. Ya. (Moscow)

TITLE: Constant-velocity flow of electroconductive gas in the channel of a magnetohydrodynamic generator

SCURCE: AN SSSR. Tzv. Otdel: tekhn. nauk. Mekhanika i mashinostroyeniye, no. 3, 1963, 3-8

TOPIC TASS: magnetohydrodynamic generator, electroconductive gas, moving

ARSTRACT: An analytical investigation is made under the following assumptions: 1) the gas is ideal, nonviscous, and nonheat conductive; 2) the channel flow is quasi-unidimensional; 3) the gas is electrically neutral; 4) the magnitude of

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825620018-9 potential difference is constant, Equations determining the motion of all Cord 1/2

KOVBASYUK, V. I.; MEDIN, S. A.; PROKUDIN, V. A.; STEPANOV, S. A.

"Some Aspects of Noble Gases MHD-Generator Operation."

report submitted for Intl Symp on Magnetohydrodynamic Electrical Power Generation, Paris, 6-10 Jul 64.

Moscow High Temperature Inst

ACCESSION NR: AP4038429

\$/0294/64/002/002/0156/0159

AUTHOR: Gubarev, A. V.; Kovbasyuk, V. I.

TITLE: Analysis of the Hall effect in a moving plasma

SOURCE: Teplofizika vy*sokikh temperatur, v. 2, no. 2, 1964, 156-159

TOPIC TAGS: Hall effect, plasma energy balance, graphic computation, optimal plasma flow

ABSTRACT: By representing the electric field vector and the current density in the plasma as complex numbers, so that the power absorbed from the electric external field or given up to the field can be plotted as a family of circles in the complex plane, the authors develop a graphic method for determining the energy balance of a plasma moving in crossed electric and magnetic fields. The cases considered are zero longitudinal field, zero transverse field, zero longitudinal current, and electric field equipotentials making a fixed angle with the plasma velocity vector. It is pointed out that the graphical technique makes it very easy to determine the optimal plasma flow conditions (when the maximum energy transfer occurs at minimum dissipation). Orig. art. has: 4 figures and 6 formulas.

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L 00\186-66 EMP(m)/EPF(c)/EPF(p)-2/EPA(s)-2/EMO(v)/EPA(w)-2/EMT(1)/EMT(m)/EMO(m)/ 1-2/EMP(b)/EPA(sp)-2/EMA(d)/EMP(t) IJP(c) JD/AT ACCESSION NR: AP5020558 UR/0284/65/003/004/0562/0568 AUTHOR: Ivanov, P. P. ; Koybasyuk, V. I.	
TITLE: The problem of optimization of the flow of a nonequilibrium plasma in the channel of a magnetohydrodynamic generator SOURCE: Teplofizika vysokikh temperatur, v. 3, no. 4, 1965, 562-568	
TOPIC TAGS: ionized plasma, plasma physics, MHD generator, argon, potassium compound, Hall generator, magnetic induction ABSTRACT: The article offers a theoretical consideration of the dependence of electric power of a Faraday type ideal sectioned generator on the Mach number,	
at given drag and internal efficiency factors. An example is given of a magneto-hydrodynamic generator with a nonequilibrium argon-potassium oxide plasma in the channel. The electron collision section for argon and potassium were taken as 2: 10 ⁻¹⁶ and 3: 10 ⁻¹⁴ cm ² , respectively. The relative concentrations of the additives were taken as 0.1 and 0:05 mole%, respectively. The inductive magneto-	

KOVBASYUK, V.P.; CHERNAYA, N.S. [Chorna, N.S.]

Excess conductivity of photosensitive films of lead sulfide. Ukr. fiz. zhur. 8 no.9:1030-1032 S '63. (MIRA 17:8)

1. Institut poluprovodnikov AN UkrSSR, Kiyev.

KOVBASYUK, V.P.; CHERNAYA, N.S. [Chorna, N.S.]

Long-term component of the photoconductivity of lead sulfide films. Ukr. fiz. zhur. 8 no.10:1150-1156 0 163. (MIRA 17:1)

1. Institut poluprovodnikov AN UkrSSR, Kiyev.

JD 1JP(c) EWT(1)/EWT(m)/EWP(t)/ETI SOURCE CODE: UR/0181/66/008/009/2765/2767 L 06264-67 AP6030975 ACC NR: AUTHOR: Kovbasyuk, V. P.; Litovchenko, V. G. ORG: Institute of Semiconductors, AN UkrSSR, Kiev (Institut poluprovodnikov AN TITIE: Effect of external electric field on the infrared photoconductivity of "pure" silicon,7 SOURCE: Fizika tverdogo tela, v. 8, no. 9, 2765-2767 TOPIC TAGS: photoconductivity, electric field, IR radiation ABSTRACT: The article describes the effect of an external electric field on the IR photoconductivity observed in thin (~0.5 mm) samples of n- and p-type silicon containing impurities in amounts less than 1013 cm-3. This effect is important in determining the mechanisms of formation of extrinsic photoconductivity. The field E was 5×10^5 V/cm, and the photoconductivity was measured in the 0.9-3 μ wavelength range at 297 %. IR photoconductivity spectra obtained in the absence and presence of the external field are compared with the spectrum of surface traps obtained from the differential field effect. It is shown that in most cases the photoactive absorption of IR light on surface centers is due to "impurity center - majority carrier band" transitions. Orig. art. has: 1 figure and 2 formulas. SUB CODE: 20/, SUBM DATE: 22Feb66/ ORIG REF: 007/ OTH REF: 001 Card

44700-06 ACC NR: AP6012476 SOURCE CODE: UR/0181/66/008/004/1147/1155 AUTHOR: Litovchenko, V. G.; Kovbasyuk, V. P.; Sviridenko, P. T. ORG: Institute of Semiconductors, AN UKrSSR, Kiev (Institut poluprovodníkov AN UKrSSR) TITIE: Spectra and kinetics of the infrared surface photoconductivity of silicon SOURCE: Fizika tverdogo tela, v. 8, no. 4, 1966, 1147-1155 TOPIC TAGS: silicon, ir photoconductor, crystal surface, surface property, ir absorption, resonance absorption, impurity center, activation energy

ABSTRACT: The spectra of surface infrared photoconductivity were investigated at room temperature and at 120K using chemically etched surfaces of p- and n-type silicon. The purpose of the investigation was to establish the type of energy distribution of the surface traps, to determine the activation energy of the centers, to estimate their concentration, and to obtain information on the type of photon absorption by the centers (resonant or nonresonant). The spectra were obtained with an IKS-12 spectrometer with slit width 0.05-2 mm. The intensity was varied with the aid of round diaphragms calibrated for each wavelength. The illumination was with an incandescent lamp, square-wave modulated at 9 cps. The samples were in the form of thin plates (20 x 6 x 0.6 mm). The impurity concentration was kept low to ensure that the influence of the surface centers on the impurity photoconductivity will dominate. The obtained spectra exhibited at low wavelengths (> 2.5 μ) a nonmonotonic variation with several maxima, a set of clearly pronounced "ledges" at medium wavelength, and a

Card 1/2

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ACC NR: AP6012476

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smooth rise in photoconductivity with decreasing wavelength to the absorption edge. At low temperatures the spectra exhibited a more monotonic behavior. The presence of the structure in the spectra indicates a discrete character of the energy distribution for the main surface traps. The activation energies calculated from the spectra agreed with those obtained from the differential field effect. The dependence of the infrared conductivity of the illumination, its kinetics, and the influence of illumination with white light on the spectra and on the kinetics were also investigated. In the latter case it is possible to determine the surface potential without knowing the minimum of the surface conductivity. It is concluded that detailed investigations of the spectra of surface infrared conductivity and its kinetics as well as its temperature and field dependence, can serve as an effective new method of investigating the properties of surface centers and the laws governing the nonequilibrium processes which occur in the space-charge region. Orig. art. has: 6 figures and 3 formulas.

SUB CODE: 20/ SUBM DATE: Olsep65/ ORIG REF: 015/ OTH REF: 007

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EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(1) 00b8h-67 GD ACC NR. AT6016712 SOURCE CODE: UR/0000/65/000/000/0024/0046 AUTHOR: Kovbasyuk, V. V 38 B+I ORG: None TITLE: Some problems in classification, analysis and synthesis of logical mechanisms SOURCE: AN SSSR. Institut mashinovedeniya. Analiz i sintez mekhanizmov i teoriya peredach (Analysis and synthesis of mechanisms and the theory of transmissions). Moscow, Izd-vo Nauka, 1965, 24-46 TOPIC TAGS: binary logic, logic element, industrial automation, logic duign, computar program logic ABSTRACT: The author considers problems in the design and study of logical mechanisms i. e. mechanisms with discrete or relay action, assuming the following fundamental differences between logical mechanisms and electrical or pneumatic logic devices. Electric and pneumatic logic devices consist of clearly defined logic elements and connect ing lines which carry the signal, while the logical links of mechanisms can be disting guished only by their interrelationship. The input and output form of the variable in electronic and pneumatic logic devices is the same, i. e. the concept of 0 and 1 in these devices is associated with the presence or absence of pressure, an open or closed contact, etc. On the other hand, the two-valued concept in logical mechanisms may be expressed in a variety of forms. For example, one position of a link (right, Card 1/2

level. Logica in a single van bles. These a those with com divided into a each of these may be used for as with electra be more widely more convenien	al mechanisms uriable and to are further s abinations of switching, li categories s or designing ical and pne used in des t and easier	s are classified those for realizi subdivided into of the two types. imiting and couplare discussed and systems based on systems based on the two types.	while another correlatore a given lever into those for realing logical function at egories with right Mechanisms with ruling types. The discome examples are at the structural that is recommended to machines in view orig. art. has: 19	rel and to 0 bel lizing logical ons with two or id and elastic rigid links are stinguishing fe given. Logica eory of relay dhat mechanical	functions functions more varia- elements and further sub- satures of l mechanisms evices just links should

KOVBASYUK, V.V.

Production norms and fuel expenditure in winning peat and preparing mixed fertilizers. Mekh. sil'. hosp. 14 no.10:21-22 0 163.

1. Direktor Zhitomirskoy zonal'noy normativno-issledovatel'skoy

KUCHER, R.V.; KOVBUZ, M.A.

Investigation of the colloidal properties of some sulfoscaps in aqueous solutions [with English summary in insert]. Koll.zhur.
18 no.2:193-198 Mr-Ap '56. (MLRA 9:8)

1. L'vovskiy gosudarstvennyy universitet imeni Ivana Franko, Kafedra fizicheskoy i kolloidnoy khimii. (Soaps) (Micellar theory)

KOVBUZ, M.C.

KUCHER, R.Y.; POLONS'KIY, T.M.; KOVBUE, M.O.

Bentonite clays as catalytic agents of emulsion oxidation of cumene. [with summary in English]. Dop. AN URSR no.1:42-45 '57. (MLRA 10:4)

1. L'vivs'kiy dershavniy universitet. Predstaviv akademik AN URSE A. V. Dumans'kiy.
(Bentonite) (Gumene)

.. KOVBUZ, M.A.

USSR/Physical Chemistry - Colloid Chemistry, Dispersion Systems.

B-14

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 4044.

Author : R.V. Kucher. A.A. Yavorovskiy, M.A. Kovbuz.

Inst Title

: Study of Colloid Properties of Sodium Salts of Sulfosuccinic

Acid Esters.

Orig Pub: Kolloidn. zh., 1957, 19, No 4, 454-458.

Abstract: The surface tension isotherms of aqueous solutions of sodium salts of dimethyl, diethyl, dibutyl and diisoamyl esters of sulfosuccinic acid were studied. The micelle formation in the three lower salts is displayed in aqueous solutions at an insignificant degree, which is confirmed with the values of the critical concentration of micelle formation and of the micelle-molar weight determined by the light diffusion method. Diisoamyl ester possesses clearly expressed colloid properties. The conjugate solubility of sudan III starts to increase no-

Card : 1/2

-5-

KONBUZ, M.A.

20-4-26/52

AUTHORS:

Kucher, R. V., Yurzhenko, A. I., Kovbuz, M. A.

TITLE: .

The Oxidation of Cumene by Molecular Oxygen in Emulsions in the Presence of Various Emulsifiers (Okisleniye kumola molekulyarnym kislorodom v emul'siyakh v prisutstvii

razlichnykh emuligatorov).

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 117, Nr 4, pp. 638-640 (USSR)

ABSTRACT:

The present report studies the velocity of the oxidation referred to in the title in connection with the ratio of the phases and with the nature of the used emulsifiers. The purified hydrocarbon was oxidized in glass retorts by bubbling pure oxygen in a thermostat at 80°C. Specimens for the analysis with respect to the content of hydroperoxide were taken in certain intervals from the reaction mixture. The cumene--phase was further analyzed with respect to the total output of carbonyl compounds. A diagram illustrates the kinetic curves of the output of hydroperoxide of cumene at different ratios of the phases with lacking emulsifier. It results from these data that an increase of the volume of the acqueous phase considerably increases the velocity of accumulation of the hydroperoxide of cumene. These data can also be checked in other systems and show among other things the following:

Card 1/3

The Oxidation of Cumene by Molecular Oxygen in Emulsions in the Presence of Various Emulsifiers.

The acqueous phase is the essential kinetic factor in the oxidation of hydrocarbons in the emulsions, since it acts as initiation zone of the process and the hydroperoxides are produced in it. The importance of the acqueous phase for the emulsionlike oxidation still increases substantially in the presence of colloidal electrolytes (emulsifiers) containing a surface-active anion. The emulsifiers accelerate the production of the hydroperoxides at otherwise equal conditions. In the emulsionlike oxidation of the hydro-carbons the initiation of the reaction and the production of hydroperoxide occur mainly in the acqueous phase. The primary initiation of the processes discussed here consists in the production of free hydrocarbon-radicals. Besides the specific influence of the emulsifier on the decay of hydroperoxide of cumene the solubility of the hydroperoxide in the acqueous phase connected with this process must also be taken into account. There are 2 figures, 1 table, and 6 references, 3 of which are Slavic.

ASSOCIATION:

State University imeni Iv. Franko, L'vov (L'vovskiy gosudarstvennyy universitet imeni Iv. Franko).

Card 2/3

KUCHER, R.V.; YENAL'YEV, V.D. [IEnal'iev, V.D.]; YURZHENKO, A.I., [IUrzhenko, O.I.], Kovbuz, M.O.

Effect of the molecular weight of tertiary hydrocarbons on their oxidizability in the liquid phase and in emulsions. Nauk. zap.L'viv.un. 46:13-16 '58. (MIRA 12:7) (Hydrocarbons) (Oxidation)

(HIRA 12:7)

KUCHER, R.V.; YURZHENKO, A.I. [IUrzhenko, O.I.]; KOVBUZ, M.O. Means of accelerating the oxidation reaction of isopropylbenzene in the liquid phase. Nauk.zap.L'viv.un. 46:17-20 '58.

(Cumene) (Oxidation)

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SOV/69-21-3-12/25

AUTHORS:

Kucher, R.V., Yurzhenko, A.I., Kovbuz, M.A.

TITLE:

Some Emulsifiers as Kinetic Factors of Cumene Oxidation

in Emulsions

PERIODICAL:

Kolloidnyy zhurnal, 1959, Vol XXI, Nr 3, pp 309-314

(USSR)

ABSTRACT:

The authors report on the effect of a number of emulsifiers (potassium palmitate, Nekal, Leucanol and cetyl pyridine bromide) on the kinetics of oxidation of cumene (isopropylbenzene)(IPB) and on the yield of hydroperoxides (HPC). The maximum rate of oxydation of IPB in emulsion and the maximum yield (70-80%) of HPC were obtained with a 0.5-1% potassium palmitate concen-Nekal and Leucanol also speed up the accumulation of HPC (\sim 70%), but this process is delayed by a certain period of induction. The effect of Nekal, like that of other colloidal electrolytes, is connected to a considerable extent with the change of the rate

Card 1/2

Some Emulsifiers as Kinetic Factors of Cumene Oxidation in

of decomposition of HPC in the presence of these substances. The effect of the emulsifiers on the rate of oxidation of IPB depends in the main on their colloidal properties (micelle formation, colloid solubility). The cation active emulsifier cetyl pyridine bromide, if introduced into the initial oxidation mixture, noticeably delays the process of HPC accumulation. The introduction of 0.1% cetyl pyridine bromide 30 hours after the initiation of the process stimulates the reaction. In this case, the yield of HPC reaches nearly 80%. The authors mention the Soviet scientists K.I. Ivanov and N.M. Emanuel'. There are 5 graphs, 2 tables and 11 references, 8 of which are Soviet and 3 English.

ASSOCIATION: L'vovskiy universitet (L'vov University)

SUBMITTED: 14 Septem

14 September, 1957

Card 2/2

5(4) AUTHORS:

Kucher, R. V., Kovbuz, M. A.

SOV/76-33-2-30/45

TITLE:

On the Role of the Aqueous Phase in the Emulsion Oxidation of Isopropyl Benzene (O roli vodnoy fazy v protsesse emulsionnogo okisleniya izopropilbenzola)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 2, pp 429 - 436 (USSR)

ABSTRACT:

The oxidation of isopropyl benzene (cumene) (I) is a very important reaction for industry, since the main product is hydrogen peroxide (II), which is needed for the production of phenol and acetone (Ref 1). In order to increase the yield of (II) in the case of emulsion oxidations of hydrocarbons it must be possible to estimate the macroscopic reaction stages and their reproducibility. Results concerning such tests are given in this paper. The oxidations were carried out in emulsions which were not stabilized by

Card 1/3

emulsifiers, and at definite time intervals samples were tested for their (II) content using a potentiometric titra-

On the Role of the Aqueous Phace in the Emulsion Oxidation of Isopropyl Benzene

507/76-33-2-30/45

tion involving the iodometric micro-method (Ref 9). The experiments dealt only with neutral and alkaline aqueous phases. The experimental results show (Fig 1) that by varying the alkalinity of the aqueous phase the process is considerably accelerated and the induction period is reduced. By using a 0.1 n sods solution (pH = 9.9) the induction period decreased to almost zero and the rate of reaction (RR) became 1.5 times greater than in the homogeneous phase. The (RR) also increases with an increase in the relative content of the aqueous phase in the emulsion. A reapplication of the aqueous phase does not inhibit the "new" reaction, and even seems to cause the reaction to run better than with a "fresh" agreeous phase (Fig 3). The removal of the aqueous phase from a reaction which has already begun hinders the reaction, decreases the yield of (II), and can in certain cases even lead to the decomposition of the (II) produced. The experimental results (Fig 5) show that not only does the addition of a soda solution during the reaction "renew" the reaction, but it will cause a reaction which has already run to react further

Card 2/3

On the Role of the Aqueous Phase in the Emulsion Oxidation of Isopropyl Benzene

SOV/76-33-2-30/45

and thus increase the yield of (II). In relation to the topochemical scheme for the emulsion oxidations of hydrocarbons (Ref 7) it is assumed that the production and development of the molecular chains takes place in the aqueous phase, while the hydrocarbon phase functions as a "reservoir" of the process according to phases agrees well with the theory of N. M. Emanuel. There are 5 figures and 10 references, 6 of which are Soviet.

ASSOCIATION:

L'vovskiy gosudarstvennyy universitet im. I. Franko (L'vov State University imeni I. Franko)

SUBMITTED:

July 19, 1957

Card 3/3